in Australia and consequently presents advertising links to 'MICROSOFT NETWORK (MSN) AUSTRALIA™'. However, using an IP address to predict physical location is inaccurate since some companies with offices in Australia have IP addresses that end in *.com*.--

B2 cont'd

Please substitute the paragraph starting at page 9, line 1 and ending at line 10, with the following paragraph. A marked-up copy of this paragraph, showing the changes made thereto, is attached.

B3

--The user interface surface 112 has provided thereon a number of graphical icons, a first group of which depict an alphanumeric keypad 114 in a fashion similar to keypads known in the art of telecommunications and like arrangements. A number of other user or service provider (eg. a telecommunications company) customisable icons 120, 122, 124, and 126-128 can also be provided. The smart-card 101 is preferably pre-programmed by a user. Alternatively, the smart-card 101 is pre-programmed by a service provider and supplied to the user for a fee. The icons 114, 116, 118, 120, 122, 124, 126, and 128 configured upon the surface 112 are each associated with an x-y co-ordinate mapping retained within the computer chip 106 and which provides for interpretation of a user selection of any one of the icons 114-128 (to be described).--

Please substitute the paragraph starting at page 9, line 16 and ending at line 22, with the following paragraph. A marked-up copy of this paragraph, showing the changes made thereto, is attached.

--A signal 362 output from the reader 302 may be used to provide for implementation of a service, via a base station 903, as seen in Fig. 9, depending on context information received by the base station 903, in accordance with the smart-card 101 of the embodiments. The smart-card reader 302 is preferably connected to the base station 903 via a two-way digital communications link 362 such as a Radio Frequency (RF) Link. However, any known communications link (eg. infra-red) can be used with the embodiments.--

B4

Please substitute the paragraph starting at page 9, line 23 and ending at page 10, line 7, with the following paragraph. A marked-up copy of this paragraph, showing the changes made thereto, is attached.

--In a first embodiment of the present invention, a user is provided with a smartcard 401, as seen in Fig. 4, which serves as a phone dialer card when inserted into the reader 302. The card 401 comprises several icons 403, 405 and 407, which have been labelled "Emergency", "Police" and "Fire", respectively. The icons 403, 405, and 407 have been preferably pre-programmed with telephone numbers, by a user or a service provider (eg. a telecommunications company), for the respective emergency services related to the icons 401 to 405. The method of programming the smart-card 401 will be described later in this document with reference to Fig. 5. As emergency service telephone numbers differ from country to country, the smart-card 401 preferably includes a pre-programmed table of all of the telephone numbers, including the country codes for the countries in which the card 401 has been designated to operate in by the service provider or user.--

B5

Please substitute the paragraph starting at page 10, line 8 and ending at line 12, with the following paragraph. A marked-up copy of this paragraph, showing the changes made thereto, is attached.

--Fig. 10 is a flow chart showing the sequence of communications that would occur between the reader 302 and the base station 303, if the user inserted the card 401 into the reader 302 and pressed the icon 403 labelled "Emergency". The process begins at step 1001, where if the user happens to be in Sydney, Australia, the reader 102 transmits the following command to the base station 303:--

Please substitute the paragraph starting at page 10, line 23 and ending at page 11, line 5, with the following paragraph. A marked-up copy of this paragraph, showing the changes made thereto, is attached.

--Fig. 11 is a flow chart showing the sequence of communications that would result between the reader 302 and another base station (not illustrated) which is located in the U.S.A., if the user then took the smart-card 401 and smart-card reader 302 to New York, U.S.A., and again pressed the icon 403 labelled Emergency. The process begins at step 1101, where the same command as above is sent to the base station (not illustrated) which is located in the U.S.A. At the next step 1103, the base station checks to see if the country code is correct (i.e. country = 1). If the country code is incorrect the U.S.A. located base station would indicate to the reader 302, at step 1105, that the reader 302 should resend the command with the correct country code by sending:--

Please substitute the paragraph starting at page 11, line 17 and ending at line 22, with the following paragraph. A marked-up copy of this paragraph, showing the changes made thereto, is attached.

--Fig. 13 shows a generic process 1300, in the form of a sequence of method steps, for context sensitive service provision, using a control template. The process 1300 commences at 1312, and in a subsequent step 1302, a user inserts the control template (eg the phone dialler card shown in Fig. 4) into a reader. Thereafter, in a step 1304, the user selects a control icon on the surface of the template, this action communicating a signal, as depicted in a subsequent step 1306 from the reader to a service provision device.--

B8

Please substitute the paragraph starting at page 12, line 14 and ending at line 23, with the following paragraph. A marked-up copy of this paragraph, showing the changes made thereto, is attached.

--Fig. 14 shows a more detailed process 1400, comprising a sequence of method steps, for context sensitive service provision, using a control template. The process 1400 commences at a step 1402. In a subsequent step 1404, a user selection of at least one icon on the template relates signals generated from the user selection with a corresponding stored character string which includes contextual information. In a following step 1406, an output signal including the stored character string is transmitted, thereby indicating the desired service. Thereafter, in a step 1408, the transmitted contextual information is compared to an "actual" portion of contextual information, and performance of the desired service is enabled, in a step 1410, dependent upon the outcome of the comparison. The process 1400 terminates in a step 1412.--

B9

Please substitute the paragraph starting at page 13, line 7 and ending at line 12, with the following paragraph. A marked-up copy of this paragraph, showing the changes made thereto, is attached.

B10

--Fig. 12 shows the sequence of communications that would occur between the smart-card reader 302 and the processors of the photocopiers when the user inserts the smart-card 101 into the reader 302 of copier A after having used the card 101 on a different machine Z. The process begins at step 1201, where the following command is sent to the processor of copier A:

copier= Zcopies?1.--

Please substitute the paragraph starting at page 14, line 1 and ending at line 6, with the following paragraph. A marked-up copy of this paragraph, showing the changes made thereto, is attached.

B11

--When the smart-card 101 of the second embodiment is now taken to another copier (e.g. copier B) and inserted into a smart-card reader 302 mounted on copier B, a different sequence of communications occurs between the smart-card reader 302 mounted on copier B and the processor of copier B, as seen in Fig. 6. The process begins at step 601, where the reader 302 sends the following command to the processor of copier B:

copier=A copies?1;collating;stapling.--

Please substitute the paragraph starting at page 16, line 12 and ending at line 14, with the following paragraph. A marked-up copy of this paragraph, showing the changes made thereto, is attached.

B12

--Fig. 15 shows a smart-card 1500, in a reader 1502, with a button 1504 labelled "Call Office" by which a connection can be made to a support office from anywhere in the world at any time.--

Please substitute the paragraph starting at page 16, line 15 and ending at line 18, with the following paragraph. A marked-up copy of this paragraph, showing the changes made thereto, is attached.

B13

--Turning to Fig. 16, a process 1600 is shown, comprising a sequence of method steps, for placing a call to the aforementioned support office. It is assumed that two smart-card readers A and B are available (not shown), owned by a technical person and a sales person respectively and that these communicate with "intelligent" telephones.--

Please substitute the paragraph starting at page 17, line 7 and ending at line 12, with the following paragraph. A marked-up copy of this paragraph, showing the changes made thereto, is attached.

B14

--It is noted that the current time is expressed in Greenwich Mean Time (GMT) to avoid ambiguities with time-zones. Next, in a step 1610, the reader A and the smart-card use the above received information about the location and the time to index into a table of stored phone numbers, (stored on the smart-card), and send the following request:

country=61 reader=A time=1700 call?number=0011-1-650-555-1212

which will connect the technical person, in a following step 1612, with the San Jose technical support office. Then the process ends at step 1614.--

Please substitute the paragraph starting at page 17, line 13 and ending at line 18, with the following paragraph. A marked-up copy of this paragraph, showing the changes made thereto, is attached.

--Turning to Fig. 17, a process 1700 is shown, comprising a sequence of method steps, for another example of placing a call to the aforementioned support office. In this instance, the process 1700 commences at a step 1702, after which, in a next step 1704, a second user, who is a sales person, initiates a call at 7 pm from reader B. At this time, sales support is handled by the UK office where it is 9 am. Pressing the Call button on the card, as depicted in the next step 1706, causes the following to be sent:--

B15

Please substitute the paragraph starting at page 17, line 25 and ending at line 26, with the following paragraph. A marked-up copy of this paragraph, showing the changes made thereto, is attached.

--The smartcard 1500, together with the reader B respond, in a next step 1710 as follows:--

B16

Please substitute the paragraph starting at page 19, line 9 and ending at line 11, with the following paragraph. A marked-up copy of this paragraph, showing the changes made thereto, is attached.

--As seen in Fig. 8, the computer system 800 comprises a computer module 701, input devices such as a keyboard 702 and mouse 703, and output devices including a smart-card programmer 840 and a display device 714.--

B17

Please substitute the paragraph starting at page 19, line 12 and ending at line 17, with the following paragraph. A marked-up copy of this paragraph, showing the changes made thereto, is attached.

--Further, and as seen in Fig. 7, a Modulator-Demodulator (Modem) transceiver device 716 may be used by the computer module 701 for communicating to and from a communications network 720, for example connectable via a telephone line 721 or other functional medium. The modem 716 can be used to obtain access to the Internet, and other network systems, such as a Local Area Network (LAN) or a Wide Area Network (WAN).--

B18

Please substitute the paragraph starting at page 20, line 23 and ending at page 21, line 20, with the following paragraph. A marked-up copy of this paragraph, showing the changes made thereto, is attached.

--Returning to Fig. 5, the programming process is now described. In process step 500, coordinates for a specified region are entered, while in parallel (or alternatively sequentially) information associated with the region in question is entered in process step 502. With reference to the emergency services telephone card 401, the coordinates of a button, icon or region are x-y coordinate measurements measured from convenient points, say a top left hand corner and bottom right corner of the card 401, while the command information associated with the icon or region is the telephone number for the particular emergency service. Once both these pieces of information are entered via the keyboard 702, they are loaded by the software via the smart-card programmer 840 into the smart-card memory in step 504. This information is stored in the smart-card memory as a

B19

member of a table, e.g. {TL, BR, "COMMAND"}. Thereafter in step 506, the programming process tests whether further information is to be programmed onto the card. In the event that further information is required, the programming process is directed back to process steps 500 and 502 as shown by arrow 512. In the event, however, that the programming is complete, the programming process is directed to a process step 508, where the user or service provider is able to select appropriate graphics from the software application. These graphics are printed (step 510) by means of the smart-card programmer 840 onto the smart-card upper surface. The smart-card programmer 840 uses the x-y coordinate measurements entered by the user for printing the graphics at the appropriate locations. It is possible to make use of more complex graphics, and for example a miniature picture of a Fire Engine or Red Cross Sign can be printed on the card 401. It will be apparent that although a simple table-driven arrangement is described here, a general decision or mapping algorithm whereby one or more inputs from a user, and one or more inputs from context result in output of a string can also be used.--

IN THE CLAIMS:

Please cancel Claim 36 without prejudice to or disclaimer of the subject matter recited therein.

Please amend Claims 1, 2, 4-8, 10, 12-17, 19-27, 29-35, 37, 40-43, 46-50 as follows. A marked-up copy of these claims, showing the changes made thereto, is attached. Please note that all claims currently pending in this application are being reproduced below for the Examiner's convenience regardless of whether the claim is being amended.